


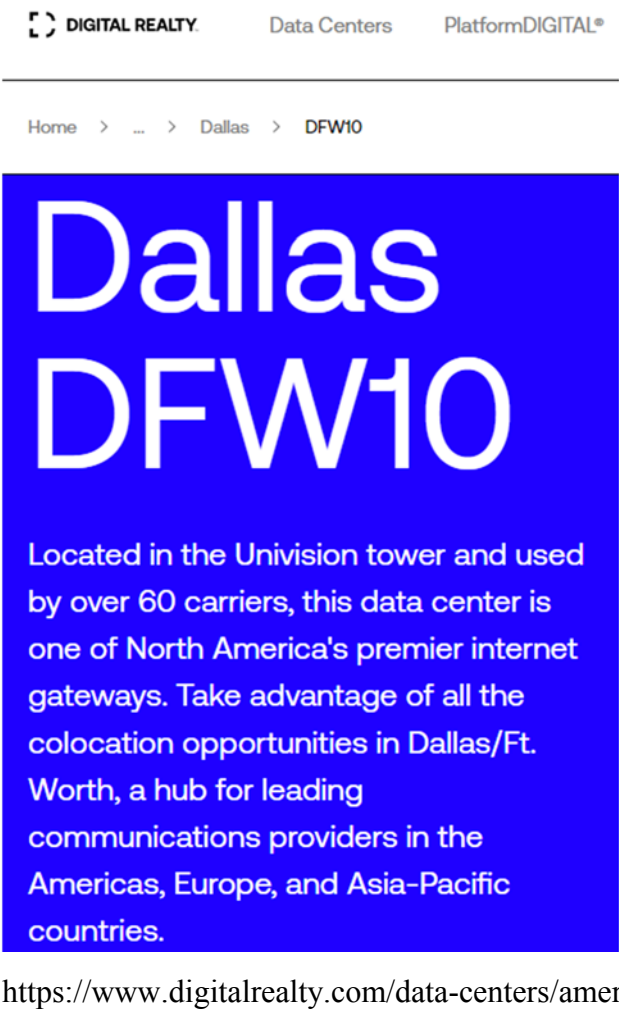



Exhibit 12


U.S. Patent No. 9,310,855 – Infringement Claim Chart



Claim 8	Identification
<p>[8pre] A flexible data center including T-rows of server racks, comprising:</p>	<p>Digital Realty uses flexible datacenters including T-rows of server racks comprising the elements below.</p> <p>For example, Digital Realty DFW10 is such a flexible datacenter.</p>  <p>The image is a screenshot of a video showing an aerial view of a large, modern data center building. The building is a long, rectangular structure with multiple wings and a central courtyard. It is surrounded by a parking lot with several cars. The video player interface at the bottom shows a progress bar at 2:48 / 3:11.</p>


Claim 8	Identification
	 <p>Digital Realty Dallas Data Center</p> <p> Datacenters.com 523 subscribers Subscribe</p> <p>216 views Jan 10, 2014 http://datacenters.com/location/dalla...</p> <p>Located in downtown Dallas Univision Tower is one of the premier Internet gateways in the United States. Consisting of over 477,000 square feet the telecommunications facility serves as the southwest headquarters for the Univision broadcasting network and is the nexus of metro-area national and international communications networks in the southwestern United States.</p> <p>https://www.youtube.com/watch?v=uXia-8D0N-A</p>

Claim 8	Identification
	 <p>Home > ... > Dallas > DFW10</p> <h1>Dallas DFW10</h1> <p>Located in the Univision tower and used by over 60 carriers, this data center is one of North America's premier internet gateways. Take advantage of all the colocation opportunities in Dallas/Ft. Worth, a hub for leading communications providers in the Americas, Europe, and Asia-Pacific countries.</p> <p>https://www.digitalrealty.com/data-centers/americas/dallas/dfw10</p>
[8a] a number B of blocks on a site, each block including:	The datacenter includes a number B of blocks on a site each block including the below.

Claim 8	Identification
	 <p>The image is an aerial photograph of a data center campus. Several buildings are highlighted with blue rectangular labels. The labels include the following information:</p> <ul style="list-style-type: none"> 1252 Alma Substation 850 E. Collins Blvd. 950 E. Collins Blvd. 1232 Alma Road 900 Quality Way 904 Quality Way 908 Quality Way 1215 Integrity Drive 1210 Integrity Drive 905 Security Row 907 Security Row <p>Below the image is a YouTube video player interface showing a progress bar at 1:04 / 3:11.</p> <p>https://www.youtube.com/watch?v=uXia-8D0N-A</p>
<p>[8b] one to a number P of perimeter structures, wherein each perimeter structure houses up to a number R of rows of server racks; and</p>	<p>Each block includes one to a number P of perimeter structure, wherein each perimeter structure houses up to a number R of rows of server racks.</p>


Claim 8	Identification
	 <p data-bbox="768 703 1730 735">https://www.youtube.com/watch?v=uXia-8D0N-A</p>
<p>[8c] a connecting structure connected to the number P of perimeter structures, wherein the connecting structure houses operations monitoring equipment for the server racks, and wherein the one to the number P of perimeter structures retain functionality independent of the connecting structure;</p>	<p>Each block includes a connecting structure connected to the number P of perimeter structures, wherein the connecting structure houses operations monitoring equipment for the server racks, and wherein the one to the number P of perimeter structures retain functionality independent of the connecting structure.</p> <p>For example, connecting structure is shown connected to the perimeter structures. On information and belief, the connecting structure houses monitoring equipment for the server racks.</p>


Claim 8	Identification
	<div data-bbox="766 256 1732 706"></div> <div data-bbox="766 706 1417 738">https://www.youtube.com/watch?v=uXia-8D0N-A</div> <div data-bbox="766 771 2005 1209"><p>A world of availability</p><p>Digital Realty needed a globally consistent infrastructure to support its colocation goals and expansion. Schneider Electric helped customize a reliable EcoStruxure solution to unify, monitor and control Digital Realty facilities, anywhere in the world, anytime.</p></div> <div data-bbox="766 1209 1795 1242">https://www.se.com/us/en/work/campaign/life-is-on/case-study/digital-realty.jsp</div> <p data-bbox="766 1282 2005 1356">One to the number P of the perimeter structures retains functionality independent of the connecting structure.</p>


Claim 8	Identification
	<div data-bbox="772 261 1360 1377"><div data-bbox="793 285 1020 326"> DIGITAL REALTY</div><div data-bbox="793 415 1234 443">Home > ... > Dallas > DFW18</div><div data-bbox="793 532 1100 560">Power you can count on.</div><div data-bbox="793 743 1115 776">UPS redundancy: 2N</div><div data-bbox="793 943 1029 1008">Cooling</div><div data-bbox="793 1052 1092 1079">Cooling that never quits.</div><div data-bbox="793 1263 1167 1295">Cooling redundancy: N+1</div></div> <div data-bbox="772 1382 1608 1414">https://www.digitalrealty.com/data-centers/americas/dallas/dfw18</div>


Claim 8	Identification
	<div data-bbox="772 302 2001 1256" style="border: 1px solid black; padding: 10px;"> <p>N+1 definition</p> <p>If N equals the amount of capacity needed to run the facility, N+1 indicates an additional component added to support a single failure or required maintenance on a component. Design standards typically call for 1 extra unit for every 4 needed. So if you have, say, 8 UPS units, then you should at least have 10 total UPS units.</p> <p>2N definition</p> <p>2N refers to a fully redundant, mirrored system with two independent distribution systems. They are not connected in any way and are not dependent on each other. This means that even if one power source has an interruption or loss of power, the other should still supply power and accommodate full load, thereby eliminating any potential downtime from the loss of one side or leg of the system.</p> </div> <p data-bbox="772 1263 1507 1295">https://www.digitalrealty.com/resources/articles/2n-vs-n-1</p>
[8d] a total integer number T/R of perimeter structures comprising the	As shown, there are R rows of server racks where T/R comprises the P perimeter structures.

Claim 8	Identification
<p>number P of perimeter structures, wherein:</p>	 <p>https://www.youtube.com/watch?v=uXia-8D0N-A</p>
<p>[8e] at most one perimeter structure houses less than R rows of server racks;</p>	<p>At most one perimeter structure houses less than R rows of server racks. For examples, as shown, no perimeter structure houses less than R rows of server racks.</p>


Claim 8	Identification
	
<p>[8f] B is equal to an integer number (T/R)/P; and</p>	<p>B is equal to an integer number (T/R)/P.</p>

Claim 8	Identification
	 <p>https://www.youtube.com/watch?v=uXia-8D0N-A</p>
[8g] at most one block includes less than P perimeter structures;	On information and belief, at most one block includes less than P perimeter structures. For example, no blocks shown include less than P perimeter structures.

Claim 8	Identification
	 <p data-bbox="768 829 1415 862">https://www.youtube.com/watch?v=uXia-8D0N-A</p>
<p data-bbox="205 870 737 1044">[8h] a number of cooling units connected to an exterior of a respective perimeter structure, wherein a type of the number of cooling units is particular to a climate of the site; and</p>	<p data-bbox="768 870 1990 1008">Cooling units are mounted on the roof (connected to an exterior of a respective perimeter structure). On information and belief, the connecting structure between the P perimeter structures houses mechanical cooling air flow from the roof mounted cooling units to the server racks.</p>

Claim 8	Identification
	<div data-bbox="768 256 1822 781">An aerial photograph of a large, rectangular industrial building with a white roof. The roof is covered with numerous dark, rectangular cooling units arranged in a grid pattern. The building is surrounded by a paved area with some trees and a parking lot with several cars. A video player interface is visible at the bottom of the image, showing a progress bar at 2:54 / 3:11 and various control icons.</div> <p data-bbox="768 818 1703 850">The type and number of cooling units is particular to a climate of the site.</p>

Claim 8	Identification
	<p>Advantages of air cooling in data centers:</p> <ul style="list-style-type: none"> • Generally reliable performance levels and suitable for various data center types • Proven technology with a history of effective air temperature management • Easily implemented in both small and large-scale facilities <p>Disadvantages of air cooling in data centers:</p> <ul style="list-style-type: none"> • Potential for high energy consumption, especially for facilities in warmer climates • Dependence on airflow can cause fluctuations in energy usage • Can bring high energy costs if not managed effectively <p>https://www.digitalrealty.com/resources/articles/future-of-data-center-cooling</p>
<p>[8i] a number of power conditioner units connected to the exterior of the respective perimeter structure, wherein a type of the number of power conditioner units is particular to a desired power quality and to the climate of the site.</p>	<p>A number of power conditioner units are connected to the exterior of the respective perimeter structure, wherein a type of the number of power conditioner units is particular to a desired power quality and to the climate of the site.</p> <p>For example, location of the power equipment connected to the exterior of the perimeter structures is shown below (in connection with a Houston datacenter). On information and belief, such power equipment (particular to a desired power quality and to the climate of the site) would be similarly located in the Dallas datacenter.</p>

Claim 8	Identification
	 <p data-bbox="768 992 1394 1027">https://www.youtube.com/watch?v=futyu4a_ssw</p>